

I. S. M. A.
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THE GENERAL SERVICE SCHOOLS
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Instructors' Summary of Military Articles
January-March, 1923

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DIGEST OF SELECTED ARTICLES

FRONTAGES DURING THE WORLD WAR

Extracted from a French article "How to dispose of an Infantry Division," by Captain Lesaffre.—*Bulletin Belge des Sciences Militaires*, December, 1922, p. 1438. Translated at the General Service Schools.

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4. The following ideas are in accordance with data resulting from the experience of the war:

In the battle of Saint-Quentin, launched by the Germans on March 21, 1918, the group of six divisions of the IX Army Corps, in action in one of the most important sectors, in the neighborhood of Saint-Quentin, operated on a front of five kilometers with three divisions in line.

The 50th Division, which occupied the center of the front of attack of the IX Army Corps, had a front of 1,600 meters, held by four *battalions*, which makes 400 meters per battalion.

General Ludendorff, in his *Memoirs*, figures that a front of 2,000 meters and less is too narrow, as it only allows, with difficulty, the development and moving of the enormous quantity of artillery and of transportation needed on the battlefield.

He is in favor of fronts of attack from 2,500 to 3,000 meters per division.

At the battle of the Aisne, May 27, 1918, a frontage of 3,000 meters was generally adopted. It was entirely satisfactory, judging from the results.

In a study on the battle of the Aisne made by French General Headquarters and reproduced by the 2d section of the Belgian Headquarters, on August 25, 1918, it is stated:

"For the purpose of illustration, the von Conta corps, which, with three divisions in first line, attacked from Ailles (inclusive) to Corbeny (inclusive), had a total allocation of 275 batteries.

"The front of attack being about nine kilometers (three kilometers per division), the density of artillery per kilometer of front attacked was thirty batteries."

As to the result obtained, it is stated:

"In the center, the divisions of von Winckler and von Conta, each of which has only a front of attack of two kilometers (we must read

three), advance much more rapidly. Our troops (French) are submerged by the waves and incessant reinforcements of the enemy, who reaches the Aisne between 10:00 and 11:00 AM, from Chavonne to Concevreux." (A penetration of eight kilometers in a little more than six hours.)

The front of attack of three kilometers per division has, consequently, been entirely satisfactory.

As the divisions fought with four battalions in line, each battalion therefore had a front of attack of 700 meters.

A.M.

TANKS

The Bulletin Belge des Sciences Militaires is publishing a series of articles developing the very latest ideas of the French on the employment of light tanks in combat. Studies made by prominent French tank specialists are extensively reproduced.

The question of employment of tanks is considered from two standpoints:

1st. The employment of tanks by the high command.

2d. The employment of tanks by combatant troops.

In the consideration of tank employment by the high command, the following general principles are laid down as a guide:

1. The correct employment of tanks requires a thorough knowledge of their powers and limitations. This knowledge must not be based on the performance obtained on the testing ground, for such performances cannot be hoped for in battle.

2. The tank does not economize infantry but only reduces the losses in the infantry.

Tanks do not relieve the infantry of any of its missions.

3. The tank is never employed in small detachments. It does not serve to fill a gap. Its employment takes place en masse and in depth.

4. To use tanks a natural or artificial screen is needed. To produce such a screen, one-fourth to one-sixth of artillery ammunition should be smoke. The tank mortal enemy is the direct fire gun.

5. Tank units should be detrained as close as possible to their place of employment, but beyond effective range of enemy's guns (six to ten miles).

6. Commanders of tank groups, battalions, and companies are the technical assistants of corps, division, and regimental commanders.

7. Fire action—Tank fire can be carried on at very short ranges only, from 150 to 200 yards. The tank stops a moment to fire (one-half to three seconds) and then resumes its advance. It is a "traveling fire."

8. In a "break through" the successful employment of tanks against a strong and able adversary implies the organization of a powerful artillery fire system, in operation during the whole time that the tanks are exposed to view. Such a system requires a very large expenditure of ammunition and can therefore only be employed intermittently, for limited periods, and must be regulated by the high command. As a logical result thereof, tanks cannot be on the job from morning until night. During the day of battle they must be unmasked only to participate in a definite action.

After each mission is completed, tanks should be temporarily withdrawn in order to conceal them from view of the enemy. They should be placed under the nearest cover. Here they remain in readiness to set out anew, to take part in the next action in which their cooperation is necessary.

9. The tank combat group is the platoon of five tanks. It is normally allotted to an infantry battalion. In open warfare the infantry leads. The tanks only go beyond it to reduce the resistance that stops the infantry advance; when the resistance disappears the infantry resumes its advance and passes beyond the tanks, which should be again taken in hand for subsequent use. Tanks will thus sometimes be in front, sometimes in rear of leading troops; but they should always be in readiness to intervene.

10. The tank tactical unit is the tank company; it is generally allotted to an infantry regiment or brigade. The tank company commander is the technical assistant to the infantry commander and regulates the employment of the platoons in depth and their supply, so as to keep up combat for a day by the leap-frogging of platoons. He reconstitutes the damaged platoons in personnel and material by means of his headquarters reserve.

11. The tank battalion constitutes the normal allotment of an infantry division. The tank group is normally attached to the corps charged with making the main blow.

J.A.MCA.

USE OF CAVALRY

Extracted from a French article "Recasting of the Regulations and Our (French) Doctrines of War."—*Revue Militaire Generale*, December, 1922, p. 942. (Translated at the General Service Schools.)

The mission of cavalry in battle has not changed as much as we might be inclined to believe; in any case, cavalry has far from failed, as has been too often stated. As a matter of fact, it is preeminently the arm for exploiting success. This is demonstrated by: the Marwitz group in Flanders in 1914, the Schmettow corps in Roumania in 1916, the English cavalry in Palestine, and the French cavalry in Salonica in 1918. If, on our front, cavalry was not employed in this mission, it is either on account of material impediments (its exhaustion at the battle of the Marne, 1914), or because the penetrations made by us were not sufficient to open a passage for it.

However, following a certain number of breaking offensives, cavalry units could have played an important part by throwing themselves into the open penetrations, for example, at Verdun (February 24, 1916), on the Somme (July 4, 1916), in Picardy (March 24, 1918), on the Aisne (May 28, 1918).

It was, therefore, for a good reason that our instructions never ceased during the whole war to foresee the role to be played by the cavalry in the phase of exploitation. Besides, to fulfill such a mission, this arm must retain the qualities which are inherent to it: mobility and speed. Those qualities moreover allowed it to render the greatest services in the defensive phase of the spring of 1918 by blocking the penetrations of March 24 and May 28. It is, therefore, for the cavalry to retain these qualities at any cost and not, under the pretext of increasing the power of its fire, to cut down its maneuvering capacity. With the armament that it had at the end of the war, our cavalry was fitted for dismounted combat and could nevertheless move about with all desirable rapidity, even operate mounted. It could not, therefore, be a question of transforming it into mounted infantry. Besides, in open warfare it is just as useful as of old. If in a stabilized warfare the occasions for its employment are more rare, it is none the less true that, the day that it is needed, nothing can replace it.

*Let us, therefore, retain an ardent, mobile cavalry animated with an offensive spirit and capable of acting, according to circumstances, either mounted or dismounted.

A.M.

CLOSING OF A GAP BY CAVALRY

Extracted from a French article "Historical Study of the Spring Offensive of 1918" (March 21-April 4) by Major Jacquet.—*Bulletin Belge des Sciences Militaires*, December, 1922, p. 1424. (Translated at the General Service Schools.)

On the 26th, the Germans resumed their attacks against the V Corps and captured Roye.

The 9th French Division with the support of British cavalry occupied the Porquericourt Massif.

Toward Thiescourt, south of Lassigny, a Canadian brigade and the 10th French Division occupied Le Plemont (after having evacuated Lagny).

The divisional squadrons of the Sixth Army were instinctively brought toward this region, as well as the 77th French Division, which relieved the British cavalry on the Ribecourt-Lormont—Le Plemont—Conny-sur-Matz front.

On the left, the 62d and 22d Divisions had had to abandon Roye and were retiring from position on the Lagny—Avricourt—Roye line, toward Amy-Crapeamesnil, while the center of the 22d Division moved toward Beuvraignes.

On their left, the 56th Division (First Army) had been brought to the upper Avre. The 5th French Cavalry Division had moved toward Roye to cover the accesses thereto, but it arrived when the last elements of the decimated 22d Division were evacuating the city.

To the north, toward Le Quesnoy, the British troops, in very small numbers, were offering a desperate resistance to the adversary.

*That is what the Germans did not understand; they sacrificed their cavalry to the necessities of stabilized warfare and to the exigencies of the crisis of forces. The cavalry gradually adopted the organization and combat methods of the infantry and thus lost the qualities peculiar to it; when the moment arrived to employ it in the big battles of the spring of 1918, it no longer existed as a special arm. Moreover, the numerous instructions of Ludendorff for the offensive of 1918 do not say a word about the mission of cavalry in battle. The German Army only had in reality at that time three mounted cavalry divisions, which were kept on the eastern front.

A gap having been made between the 22d and 62d French Divisions, in the direction of Amy, the 1st Cavalry Division was thrown in hastily. Elements of this cavalry division were also moved toward Avre and Echelle-Saint Aurin.

A gap having been made again between those two infantry divisions, General Robillot filled it with emergency elements: convoy squadrons, corps liaison agents, a cyclist group, etc., until the arrival of two squadrons of the 1st Cavalry Division, hastening from Frescieres.

In the First Army, the 113th Division, detraining, was moved to the Brashes—Moreuil front and the 4th French Cavalry Division to Moreuil.

These two units formed the Mesple group, charged with assuring liaison with the British and with covering the detrainment of the First Army. They were connected on the south with the 56th Division at Pierrepont and with the 5th Cavalry Division.

A.M.

GERMAN OPINION REGARDING THE ARTILLERY OF THE FUTURE

(From the *Revue d'Artillerie* of January 15, 1923.) Translated by Lieutenant Colonel Clarence Deems, Jr., F.A. (DOL).

The *Revue d'Artillerie* has become an echo for the controversies which are now causing a division among Italian artillerymen, on the subject of the substitution of bombardment planes for long range guns. The German military writers are not indifferent to this question; one of them, Colonel Weitersbausen, recently has set forth his views as follows in the *Militär Wochenblatt*:

Two arms were born during the war, bombardment aviation and tank artillery.

Bombardment aviation appears to be destined to replace, in the future, heavy and long range artillery. Consequently it will be necessary to place it under the orders of the artillery commanders, otherwise, coordination of fire would become impossible.

This being accepted, the growing importance of bombardment aviation will develop a corresponding increase in the means of anti-aircraft defense, and each division should then have its own anti-aircraft artillery.

Tank artillery will become the true accompanying artillery for infantry, and will form, similar to the machine guns mounted in tanks, an integral part of each regiment of infantry. This development is strictly necessary if it is desired that tank artillery may be able to aid the infantry at the moment when they reach the zone beyond the fire

of the supporting artillery, to destroy machine gun nests within the desired time, to support a counter attack, etc.

As to the artillery proper, it will include only pieces of small and medium caliber (up to 18 cm., inclusive), and its single task should be to support the infantry.

This solution will become more logical as combat with gas will play a more important (if not decisive) role in the future, and medium artillery will be sufficient to conduct this struggle, because of its great rapidity of fire. Normally the ammunition will compose about half gas shells and half H. E. shells with instantaneous fuzes, with a small quantity of shrapnel for registration on terrain unfavorable for percussion fire. For greater flexibility each battery could be reduced to three pieces, having at its command a reconnaissance and liaison detachment (*Nachrichten trupp*) of twenty to thirty men equipped with the most modern material.

In conclusion, the organization should be as follows:

- a. Bombardment aviation and supporting artillery under the orders of the artillery commander.
- b. Independent anti-aircraft artillery.
- c. Tank artillery, under orders of the infantry.

THE NECESSITY FOR ENGINEER INTELLIGENCE TO ENGINEER COMMANDERS AND HOW IT MAY BE OBTAINED

By Captain C. De L. Gaussen, M.C., R.E. 10 pages.—*The Royal Engineers Journal*, March, 1923, p. 3.

In this article, Coopers Hill Memorial Prize Essay, 1922, the author undertakes to show the importance of good engineer intelligence to engineer commanders, and hence to all commanders.

Historical examples are given to show the value of engineer intelligence and reconnaissance, the lack of which has caused in the past fruitless and tiring marches and waste of man-power. One of these examples is in connection with the American operations at St. Mihiel. The engineers of part of the American forces engaged in the operations to cut off the German salient at St. Mihiel, in September, 1918, were ordered to accompany the infantry, and carry bridges for the crossing of the Rupt-de-Madt, a small stream running across the front of attack. The stream ran in territory which had been occupied by the Germans for the last four years and, when reached, was found to be very insignificant and to form no obstacle to infantry. It was discovered later that the General Staff was in possession of intelligence which would have given the engineer commander sufficiently accurate information to

have enabled him to avoid this waste of man-power, but, through faulty recording or distribution, it failed to reach him.

The topics of what comprises engineer intelligence, the possible sources of information, the necessity for the collation, recording, indexing, revision, and dissemination of all information, are treated in detail. To avoid overlapping of work, the author concludes that engineer intelligence, that is, technical intelligence, as, for instance, geological or electrical information, should be dealt with by the engineers, while military intelligence, and such engineer intelligence as is of use to the army as a whole should be dealt with by the general staff. However, the essence of success in the plan outlined is cooperation between the two agencies charged with the securing of information.

A.M.

THE WAR ACADEMY OF THE AMERICAN ARMY (SCHOOL OF THE LINE)

By Lieutenant Gonzalo Valdivieso, Chilean Army. Spanish text, 11 pages.—*Memorial del Ejército de Chile*, December, 1922, page 470.

The author, a graduate of the School of the Line, Class 1921-1922, is at present on duty at the Infantry and Artillery School at Villa Pratt, Chile. He outlines the different subjects included in the course; discusses the manner of presentation of the subjects; the character and scope of the practical work given, such as map problems, map maneuvers, terrain exercises, which determine the standing of the students. The preparation of problems to be solved, the marking system, and the rules concerning "reclamas" are referred to.

The author was very much impressed with the carefully and minutely drawn up printed schedules and problems, and with the efficient organization of the teaching staff. Another point that impressed him very much is the requirement that in general terrain exercises no maps showing woods, crops, contours, etc., are permitted to be carried by students, thereby requiring a solution of the exercise on the ground and not as a map problem.

The subject matter of the article is largely a translation of Instruction Circular Number 1 and is intended to serve as an

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introduction to other articles, in which the author will cover in more detail other subjects, such as Military Intelligence, Field Fortification.

A.M.

REVIEW OF NEW BOOKS RECEIVED IN THE LIBRARY

Military Operations, France and Belgium, 1914, Mons, the Retreat to the Seine, the Marne and the Aisne, August to October, 1914.

Based on the British Official Records, Compiled by Brigadier General J. E. Edmonds. One volume, with illustrative maps under separate cover. (Macmillan & Co., New York and London.) Library No. 940.9.

This volume furnishes an authoritative account suitable for general readers and for students at military schools, of the operations of the British Army from mobilization up to the middle of October, 1914, a period of two and one-half months, and is on a scale which treats to a large extent the battalion, squadron, and battery records as the basis of the story.

It deals with the importance of small units in the early operations, of the lessons to be derived from the study of the work of those units in open warfare. It leaves a picture of what war was like in 1914, when trained soldiers were still of greater importance than material, and when gas, tanks, long range guns, creeping barrages, and the participation of aircraft in ground fighting were unknown.

From the standpoint of the military student it is to be regretted that the narrative fails to give any operation orders for units smaller than the army, thereby making it difficult at times to determine exactly what was expected or demanded of subordinate units. This omission to a certain extent has been compensated for through minute description with excellent accompanying maps giving and showing in detail the different operations, thereby enabling the reader to follow in detail the movements of corps, divisions, and in many cases smaller units.

The value of the book to the military student is to be found in its description of what war was like on the western front prior to the adoption of trench warfare.

E.C.

**AN OUTLINE OF THE EGYPTIAN AND PALESTINE CAMPAIGNS,
1914-1918**

By Major General Sir M. G. E. Bowman-Manifold. 100 pages, and 13 plates of maps. (W. and J. Mackay & Co., 1922.) Library No. 940.9.

This is a detailed account of the British operations in Egypt, Palestine, and Mesopotamia during the World War.

"Originally prepared as a course of lectures for the Staff College, Camberly, and later redrafted and published in the hope that it will be a concise narrative of an interesting and progressive series of campaigns."

The author begins his narrative with an account of the situation before Turkey joined in the war, showing the important bearing of the Egyptian region and the Suez Canal on the general European situation, and the resultant influence of the control of this area and waterway upon the fortunes of the Allies, particularly England.

Then follow accounts in considerable detail of the various Turkish attempts on the canal, attacks intended to seize "the throat of England" and incidentally to cause uprisings in Egypt.

The series of campaigns beginning in 1915 and ending in the utter overthrow of the Turkish armies in Mesopotamia by General Allenby, in the fall of 1918, are given in chronological order and in sufficient detail to enable the military student to follow clearly the courses of the various operations.

The text is well supplied with maps, plates, and sketches, showing the situations at critical points of the campaigns.

J.M.M.

SECRETS OF THE BALKANS

By Charles J. Vopicka. 330 pages. (Rand, McNally & Co., 1921.) Library No. 949.7.

1. Mr. Vopicka, a Bohemian by birth, was the United States minister to Roumania, Serbia, and Bulgaria at the time the World War opened. He was therefore in a position to obtain interesting information concerning important events in the Balkans.

2. Mr. Vopicka retained this position until January, 1917, when he was expelled by the Germans and sent back to the United States. Later in the year he returned to Jassy, the

temporary capital of Roumania, via Siberia, and served until the end of the war.

3. This book contains an interesting account of personal experiences and local gossip. It appears to be based on recollection and not on contemporaneous documents. Very few documents are quoted, and these are not of great importance.

4. As an exposition of life in Roumania during the World War this book is of value; as to the great events that occurred it gives little information. The book is well illustrated.

C.H.L.

ADMIRALS OF THE CARIBBEAN

By Francis R. Hart. Houghton, Mifflin Co., New York, 1922. 203 pages. Library No. 972.97.

This work covers in considerable detail the records of events in the Caribbean during the sixteenth, seventeenth and eighteenth centuries.

It is a contribution to the better understanding of West Indian history, and the relation of operations in this theater to contemporaneous events in Europe and North America. It also serves as a contribution to the military geography of the Caribbean and its relation to the Panama Canal and the continental nations in the western hemisphere.

A.L.R.

ANTI-AIRCRAFT DEFENSE

Compiled by the officers of the 1st Anti-Aircraft Battalion, C.A.C. 201 pages. (*The Coast Artillery Journal*.) Library No. 533.6.

This publication is the best work on the technique of the anti-aircraft regiment that has so far been published. It makes no effort to go beyond the technique point of view.

It begins with a description of the composite 1st Anti-Aircraft Battalion, which in one battalion combines all elements of the anti-aircraft regiment. The battalion is the present peacetime organization which is designed for peacetime training and investigation, and is the nucleus of a war strength regiment.

The book is in reality a drill regulations for handling the material of an anti-aircraft regiment, and contains a considerable number of good illustrations as well as a simple discussion of the method of identifying airplanes and flight formations.

P.H.W.

THE GLORY OF VERDUN

By Major H. Bouvard. French text, 161 pages. Library No. 940.9.

After a short review of the geography of Verdun, and of its role in the French system of defense, the author discusses the operations that took place during the World War for the capture of this stronghold and the French defense in connection therewith.

Two chapters are devoted to a very brief account of the American operations during the St. Mihiel and the Meuse-Argonne offensives.

A.M.

DOCUMENTS RECEIVED IN INSTRUCTORS' FILE ROOM

FROM ARMY WAR COLLEGE

COMMAND COURSE:

*Instructors'
File No.*

- Suggested Reading for Command Course.* Command Course No. 9, A. W. C. P.H. 139-B-9
The Principles of War. (Parts I and II.) Lecture by Col. W. K. Naylor, G. S., A. W. C. Command Courses Nos. 11 and 12 P.H. 138-B-11 and P.H. 138-B-12

G1 COURSE:

- Analysis of Proposed Field Service Regulations, and Organization and Duties of the G1 Section of G. H. Q. A Group of Field Armies; A Field Army.* By Committee No. III. G1 Course No. 8, A. W. C. P.H. 139-F-8
Outline of the G1 Course. Individual Problem P.H. 139-F
The Principles and Methods of Procurement of Commissioned Personnel and Army Nurses. By Sub-Committee No. I. 1. G1 Course No. 9 P.H. 139-F-9
The Principles and Methods of Replacements of Commissioned Personnel and Army Nurses. By Sub-Committee No. I. 3. G1 Course No. 10 P.H. 139-F-10
The Principles and Methods of Procurement of Enlisted Personnel and Warrant Officers. By Sub-Committee No. II. 1. G1 Course No. 11 P.H. 139-F-11
The Principles and Methods of Replacements of Enlisted Personnel and Warrant Officers. By Sub-Committee No. II. 3. G1 Course No. 12 P.H. 139-F-12
Principles and Methods of Classification, Assignment, and Promotion of Commissioned Personnel and Army Nurses. By Sub-Committee No. I. 2. G1 Course No. 13 P.H. 139-F-13
Principles and Methods of Classification and Assignments of Enlisted Personnel and Warrant Officers. By Sub-Committee No. II. 2. G1 Course No. 14 P.H. 139-F-14

Personnel Plans for Plans A, B, C, and D. By Committee Nos. I and II. G1 Course No. 15	P.H. 139-F-15
Tables from Replacement Study of G1 War Department. G1 Course No. 16	P.H. 139-F-16
Comments on the Solution of the Individual Problem—Period of Informative Studies	P.H. 139-F-17

G2 COURSE:

Far Eastern Questions. Lecture by Dr. David P. Barrows	P.H. 138-C-40
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G3 COURSE:

Organization of a Port of Embarkation. Lecture by Col. R. E. Longan, G. S. G3 Course No. 18	P.H. 139-E-18
Comments on the Solution of the Individual Problem—Period of Informative Studies	P.H. 139-E-20
Summary of Solutions, Paragraphs 1, 2 and 3, Part I. Individual Problem	P.H. 139-E-19

G4 COURSE:

Outline of the G4 Course—Changes in Outline of the G4 Course. By Col. G. S. Simonds, Asst. Comd't.	P.H. 139-G
War Finance. Lecture by Mr. Benjamin Strong, Governor, Federal Reserve Bank, New York City	P.H. 139-G-1
Orientation. Lecture by Lt. Col. J. W. Beacham, Jr.	P.H. 139-G-2
Allied Strategy of Supply in World War. Lecture by Lt. Col. J. W. Beacham, Jr.	P.H. 139-G-3
Regulating Stations. Lecture by Col. J. R. Kilpatrick, O. R. C.	P.H. 139-G-6
Diversion of Shipments. Lecture by Mr. Henry Spencer	P.H. 139-G-7
Movements and the General Staff. (Parts I and II.) Lecture by Lt. Col. Georges Dumont, French Army	P.H. 139-G-8 and P.H. 139-G-9
Mass Procurement. Lecture by the Asst. Sec'y of War	P.H. 139-G-10
Industrial War Plans of the Ordnance Department. Lecture by Brig. Gen. W. S. Pierce, Ord. Dept.	P.H. 139-G-11
The Medical Service Problem. Lecture by Maj. Gen. M. W. Ireland	P.H. 139-G-12
G4 of the War Department General Staff. Lecture by Brig. Gen. Stuart Heintzelman, G. S.	P.H. 139-G-13
The War Industries Board. Lecture by Mr. Bernard M. Baruch	P.H. 139-G-14
Plans, Lessons, and Principles Deducible from British Campaigns in Iberian and Crimean Peninsulas, Sudan, South Africa, France and Palestine. Conference by Committee No. 1	P.H. 139-G-15
Plans, Lessons, and Principles Deducible from German Campaigns of Frederick the Great, 1870-71, in the West in 1914, and in the East in 1914-15. Conference by Committee No. 2	P.H. 139-G-16
Plans, Lessons, and Principles Deducible from French Campaigns; Napoleon, 1859, 1870, and World War. Conference by Committee No. 3	P.H. 139-G-17
Plans, Lessons, and Principles Deducible from American Campaigns; Revolution, 1812, Scott in Mexico, Civil War, Spanish War, Mexican Border Concentration, and against Germany, 1917-18. Conference by Committee No. 4	P.H. 139-G-18

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<i>Supply and Transport during Peace and Mobilization.</i>	
Conference by Committee No. 5	P.H. 139-G-19
<i>Supply and Transport during Initial Strategic Deployment.</i>	
Conference by Committee No. 6	P.H. 139-G-20
<i>Introduction to Report of Military Board of Allied Supply.</i>	
By General Payot, French Army	P.H. 139-G-24
<i>Individual Problem.—General Instructions, G4 Course</i>	P.H. 139-G

WAR PLANS DIVISION COURSE:

<i>Outline of the Second Part of the War Plans Division Course</i>	P.H. 139-D
<i>Assignment of Subjects and Students to Committees, for Period of W. P. D. Informative Studies</i>	P.H. 139-D
<i>Evolution of the German War Plan of 1914. Lecture by Lt. Col. Walter Krueger</i>	P.H. 139-D-4
<i>Orientation, W. P. D. Course. Lecture by Lt. Col. Upton Birnie, Jr., W. P. D. Course No. 5</i>	P.H. 139-D-5
<i>The French Plan of 1914. Lecture by Maj. G. H. Stewart, Ord. Dept., W. P. D. Course No. 7</i>	P.H. 139-D-7
<i>The A. E. F. Plan. Lecture by Lt. Col. Upton Birnie, Jr., W. P. D. Course No. 8</i>	P.H. 139-D-8
<i>War Plans Division of the General Staff. Lecture by Brig. Gen. B. H. Wells, W. P. D. Course No. 9</i>	P.H. 139-D-9
<i>Survey of the Vital Strategic Areas of the United States and its Possessions. The North Atlantic Region and the Northeast Canadian Frontier Region</i>	P.H. 139-D-10
<i>The Great Lakes and Northern Frontier Region</i>	P.H. 139-D-11
<i>The Pacific Coast Region</i>	P.H. 139-D-12
<i>The Southern Frontier and Gulf Coast and South Atlantic Region</i>	P.H. 139-D-13
<i>The Region of the Pacific and the Region of the Caribbean</i>	P.H. 139-D-18
<i>The A. E. F. Plan of 1917. By Committee No. 7</i>	P.H. 139-D-14
<i>The French Plan of 1914. By Committee No. 8</i>	P.H. 139-D-16
<i>The German Plan of 1914. By Committee No. 9</i>	P.H. 139-D-17
<i>Process of Mobilization Plans.—Responsibility for the Preparation of Plans and their Execution—Functions of the Chiefs of Branches. Lecture by Col. M. B. Stewart, G. S.</i>	P.H. 139-D-19

MISCELLANEOUS:

<i>Physical Fitness. Published by direction of Commandant</i>	P.H. 138-A-16
<i>Infantry and its Weapons. Lecture by Maj. T. H. Middleton</i>	P.H. 138-A-17

FROM THE CAVALRY SCHOOL

<i>Characteristics of Machine Guns</i>	P.H. 140-23
<i>The National Guard and Organized Reserves.—Our National Defense Act—National Guard—Organized Reserves—Reserve Officers' Training Corps and Citizens' Military Training Camps—Regular Officers detailed for duty with the Citizens' Components of the Army</i>	P.H. 140-25
<i>Map Reading; Scales, etc.</i>	P.H. 140-26
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<i>Attack of Tanks by Airplane. (From Training and War Plans Division, War Dept.)</i>	1320-N

<i>Study of the Employment of Cavalry in a Specific Situation in 1921.</i> Translation of an article in the <i>Revue de Cavalerie</i> , Nov.-Dec., 1922	320-M
<i>Military Policy and Strategy.</i> By Col. A. Grouard. Translation of an article in the <i>Revue de Paris</i> , Dec. 1, 1922	1800-C
<i>Germany—Training Courses for General and Field Officers in the German Army.—Staff Training.</i> (From Hdqrs., A. F. in G., MID.)	610-QQ
<i>Study on the Operations of the 19th Tank Battalion. Fighting in liaison with the 15th Army Corps from Oct. 17 to 20, 1918.</i> By Lt. Col. Clayeux. Translation of an article in the <i>Revue d'Infanterie</i> , Dec. 1, 1922	1320-O
<i>The French Infantry.—Discussion of new tendencies in armament and tactics of the French Army.</i> By V. Taysen, former German officer, in the <i>Militär Wochenblatt</i> , Dec. 1, 1922. (From A. F. in G., MID.)	660-D
<i>Germany—The High Command in 1914 and 1922.</i> (From A. F. in G., MID.)	610-RR
<i>Frontages During the World War.</i> By Maj. A. E. M. Lesaffre. Translation of an article in the <i>Bulletin Belge des Sciences Militaires</i> , Dec., 1922	1490-C
<i>Accompanying Artillery.</i> By General Franck, in the <i>Revue d'Infanterie</i> , Dec., 1922. Translated by Lt. Col. Clarence Deems, Jr., F. A.	180-G
<i>German Opinions Regarding the Artillery of the Future.</i> (From the <i>Revue d'Artillerie</i> , Jan., 1923.) Translated by Lt. Col. Clarence Deems, Jr., F. A.	180-H
<i>Infantry Combat.</i> By Col. Lemoine, in the <i>Revue d'Infanterie</i> , Dec., 1922. Translated by Lt. Col. Clarence Deems, Jr., F. A.	660-E
<i>Germany—Remarks on Development of the Anti-Aircraft Gun.</i> (From Hdqrs., A. F. in G., MID., Dec. 18, 1922.)	610-SS
<i>Light Tanks.—Employment en Masse and in Depth.</i> By Col. Chedeville, Lt. Col. Velpy and Lt. Col. Saboudin. Translation of an article in the <i>Bulletin Belge des Sciences Militaires</i> , Jan., 1923	1320-P
<i>Military News from Abroad.—Germany.—The Problem of the Regular Army.</i> Translation of an article in the <i>Revue d'Infanterie</i> , Jan., 1923	610-TT
<i>A Cavalry Squadron in Reconnaissance—during the days of March 19, 20 and 21, 1917.</i> By Capt. Dame. Translation of an article in the <i>Revue de Cavalerie</i> , Jan.-Feb., 1923	320-O
<i>Light Tanks.</i> By Col. A. E. M. Poulin. Translation of an article in the <i>Bulletin Belge des Sciences Militaires</i> , Dec., 1922	1320-Q
<i>The War Academy of the American Army. (The School of the Line.)</i> By Lt. Gonzalo Valdivieso, Chilean Army. Translation of an article in the <i>Memorial del Ejército de Chile</i> , Dec., 1923	1200-Z

MAGAZINES RECEIVED IN LIBRARY

NOTE:—The following is a list of periodicals received currently in the Library:

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Army and Navy Register.
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Literary Digest.
L'Illustration (French).
London Illustrated News (English).
Militar Wochenblatt (German).
Outlook.
Saturday Evening Post.

Semi-Monthlies:

Arms and The Man.
Canadian Military Gazette.
Revue de Paris (French).
Revue des Deux Mondes (French).

Monthlies:

Archives de la Grande Guerre (French).
Bulletin of the Pan-American Union.
Bulletin Belge des Sciences Militaires (French).
Coast Artillery Journal.
Chemical Warfare.
Current History.
Geographical Review.
Infantry Journal.
International Book Review.
Memorial de Infanteria (Spanish).
Memorial de Artilleria (Spanish).
Military Surgeon.
Monthly Information Bulletin, Naval Intelligence.
National Geographic.
North American Review.
Review of Reviews.
Revue d'Infanterie (French).
Revue d'Artillerie (French).
Revue Militaire Generale (French).
Revue Militaire Francaise (French).
Revue Militaire Suisse (French).
Royal Artillery Journal (English).
Scientific American.
Tank Corps Journal (English).
The Bookman.
U. S. Naval Institute Proceedings.
World's Work.
Boletin del Ejercito (Spanish).

Bi-Monthlies:

Army Ordnance.
Field Artillery Journal.
Military Engineer.
Revue de Cavalerie (French).
Quartermaster Review.

Quarterlies:

American Journal of International Law.
American Historical Review.
Army Quarterly (English).
Cavalry Journal, U. S.
Cavalry Journal (English).
Journal of American History.
Marine Corps Journal.
Royal Engineers Journal (English) (formerly monthly).
Royal United Service Institute (English).
Yale Review.

LATE BOOKS RECEIVED IN LIBRARY

CERTITUDE

By Rev. Aloysius Rother, S. J. 92 pages. (B. Herder, St. Louis, Mo.) Library No. 160.

MANUAL OF FIELD WORKS—ALL ARMS, 1921

Provisional. (British.) Library No. 354.42.

LETTERS OF FRANKLIN K. LANE

By Anne W. Lane and Louise H. Wall. 465 pages. (Houghton Mifflin Co., New York.) Library No. 923.

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By John C. Trautwine. 1528 pages. (Trautwine Co., Philadelphia.) Library No. 620.

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By Col. J. Roger. French text, 496 pages. (Berger-Levrault, Editeurs, Paris.) Library No. 358.

AN OUTLINE OF THE EGYPTIAN AND PALESTINE CAMPAIGNS, 1914 to 1918

By Maj. Gen. Sir M. G. E. Bowman-Manifold, K. B. E., C. B., D.S.O., p. s. c. 100 pages. (W. & J. Mackay & Co., Ltd., Chatham.) Library No. 940.9.

NAPOLEON FROM THE TUILERIES TO ST. HELENA

By Louise Etienne St. Denis. 303 pages. (Harper & Brothers, New York.) Library No. 923.

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NAPOLEON FROM THE TUILERIES TO ST. HELENA

By Louise Etienne St. Denis. 303 pages. (Harper & Brothers, New York.) Library No. 923.

January-March, 1923

**HISTORICAL PAPERS UPON MEN AND EVENTS OF RARE INTEREST
IN THE NAPOLEONIC EPOCH—Vol. I and II**

By Joseph H. Parsons. 843 pages. (The Saalfeld Pub. Co., New York.) Library No. 923.

A HISTORY OF THE GREAT WAR—4 Volumes

By John Buchan. 2177 pages. (Houghton Mifflin Co., New York.) Library No. 940.9.

MILITARY OPERATIONS, FRANCE AND BELGIUM, 1914

By Brig. Gen. J. E. Edmonds, C. B., C. M. G., R. E. (Ret.), p. a. c. 528 pages. (Macmillan & Co., Lt'd., London.) Library No. 940.9.

THE WAR IN THE AIR—Vol. I

By Walter Raleigh. 489 pages. (Oxford University Press, England.) Library No. 940.0.

ADMIRALS OF THE CARIBBEAN (Historical)

By Francis R. Hart. 189 pages. (Houghton Mifflin Co., New York.) Library No. 972.97.

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By Ray Stannard Baker. 1366 pages. (Doubleday, Page & Co., New York.) Library No. 940.314.

RUSSIA IN THE FAR EAST

By Leo Pasvolksy. 181 pages. (The Macmillan Co., New York, 1922.) Library No. 947.

THE SOCIAL TREND

By Edward Alsworth Ross. 235 pages. (The Century Co., New York City.) Library No. 300.

THE STUDY AND PRACTICE OF WRITING ENGLISH

By Gerhard R. Lomar, M. A., PH. D., and Margaret Ashmun, M. A. 356 pages. (Houghton Mifflin Co.) Library No. 428.

PSYCHOLOGY

By Michael Maher, S. J. 602 pages. (Longmans, Green & Co., London and New York.) Library No. 150.

AN INTRODUCTION TO ECONOMIC HISTORY

By N. S. B. Gras, PH.D. 340 pages. (Harper & Brothers, New York and London.) Library No. 330.9.

AN INTRODUCTION TO WORLD POLITICS

By Herbert Adams Gibbons. 488 pages. (The Century Co., New York.) Library No. 940.314.

THE BLOCKING OF ZEEBRUGE

By Captain A. F. B. Carpenter, V. C., R. N. 276 pages. (Houghton Mifflin Co., New York.) Library No. 940.9.

SIR DOUGLAS HAIG'S COMMAND, 1915-1918

By G. A. B. Dewar. 2 volumes, 767 pages. (Houghton Mifflin Co., New York.) Library No. 940.0.

CAMPAIGNS OF THE WORLD WAR

By Col. G. J. Fiebeger. 2 volumes, 307 pages. (U. S. M. A. Printing Office.) Library No. 940.9.

SECRETS OF THE BALKANS

By Charles J. Vopicka. 330 pages. (Rand McNally & Co., Chicago.) Library No. 949.7.

DEVELOPMENT OF TACTICS IN THE WORLD WAR (Revised Edition)

By Balk. German text, 401 pages. Library No. 355.62.

FIVE YEARS IN TURKEY

By Gen. Liman von Sanders. German text, 405 pages. (Berlin.) Library No. 940.9.

THE PSYCHOLOGY OF THE SOLDIER

By Lieut. Hesse. German text, 215 pages. (E. S. Mittler & Son, Berlin.) Library No. 150.

THE AMERICAN EXPEDITIONARY CORPS IN EUROPE, 1917-1918

By Maj. Hermann von Biehl. German text, 51 pages. (E. S. Mittler & Son, Berlin.) Library No. 940.9.

THE MOBILIZATION OF THE RUSSIAN ARMY, 1914

By Gen. Sergei Dobrorolski. German text, 52 pages. (Berlin.) Library No. 940.9.

WATER AND AIR, 1914-1918

By Maj. Gen. von Wrisberg. German text, 498 pages. (Berlag von R. F. Koehler, Leipzig, Germany.) Library No. 940.9.

DOCUMENTS AND THEIR SCIENTIFIC EXAMINATION

By C. Ainsworth Mitchell. 210 pages. (Chas. Griffin & Co., Ltd., London.) Library No. 328.

OFFICIAL HISTORY OF AUSTRALIA IN THE WAR OF 1914-1918

By C. E. W. Bean. Vol. I, 607 pages. (Angus & Robertson Ltd., Sydney, Australia.) Library No. 940.9.

IMPORTANT ARTICLES OF MILITARY INTEREST THAT HAVE APPEARED IN MAGAZINES

UNITED STATES

Army Ordnance. January-February, 1923: Transport Wagons for Medium and Heavy Field Artillery.

Cavalry Journal. January, 1923. Cavalry Fight at the Village of Volchkovtsy August 21, 1914; The Cavalry in the Battle of Vittorio Veneto; The British Cavalry in Palestine and Syria; The Fifteen Days' Training Period of the 62d Cavalry Division.

Chemical Warfare. January, 1923. The Tactical Employment of Chemical Agents by Artillery.

February, 1923. The First Projector Gas Attack Upon the American Forces, February 26, 1918; Navy to Use Peppermint Oil for Protective Training; Fitting the Gas Mask.

March, 1923. The First Projector Gas Attack upon the American Forces, February 26, 1918; A Convincing Test with Tear Gas; Chemical Warfare Procurement Planning.

Coast Artillery Journal. January, 1923. The Practical Methods of Conservation of Man-Power in Theaters of Operations; Battery "A" 51st Artillery Fires G.P.F's at Moving Targets; Doctrines of Anti-Aircraft Defense in France.

February, 1923. Railways and their Relations to National Defense; Barrage Balloons; Notes on Command.

March, 1923. Some Phases of the Effect of Aircraft on the Future Mission, Organization, Equipment and Tactics of the Coast Artillery Corps (First Prize Essay, 1922); The Attack of Maubeuge by the Germans; Maneuvering Aircraft in Formation.

Field Artillery Journal. November-December, 1922. Annual Report of the Chief of Field Artillery for Fiscal Year 1922; Some Remarks on Mountain Artillery; Field Artillery in Rear Guard Action—The Historical Example of Du Pont's Battery.

January-February, 1923. Modern War and Machines; Results of Artillery Action in the Meuse-Argonne Offensive; Field Artillery in Rear Guard Action; A Field Artillery Group in the General Advance; Remarks on the Organization of the German Artillery.

Infantry Journal. January, 1923. Military Training in High Schools; National Guard Instructor; Command and General Staff School; Defense of a Wood; Military Training (an address).

February, 1923. The Principles of War.

March, 1923. The Tank Machine Gun; National Defense; Leadership; The Principles of War (continued).

Marine Corps Gazette. December, 1922. Indoctrination Anent Proper Attitude and Conduct of American Forces of Occupation in Santo Domingo.

Military Engineer. January-February, 1923. Industrial and Man-Power Mobilization; Engineer Operations on the Italian Front; Division Maneuvers in the A. F. in G.; Engineer Operations in the World War; The Development of Field Artillery.

March-April, 1923. French Railway Troops during the War; The War-Time Control of Industries; Vicksburg Campaign Reminiscences; The Cavalry and the Engineers; "Well, I Didn't Know That" (Speech of Secretary Weeks before the Boston Chamber of Commerce); The Courses at the Engineer School.

Military Surgeon. January, 1923. Safety in Aviation; Aviation Problems in the Navy; The Selection of Aviation Personnel.

February, 1923. The Medical Man and the Medical Reserve Corps, U. S. A.

March, 1923. Bathing and Delousing American Troops at Brest, France, Prior to their Embarkation for the U. S.

Monthly Information Bulletin. Naval Intelligence. March, 1923. Foreign Policy of France; Strength of Russian Army; Turkey—Equipment and Troops of Nationalist Army.

U. S. Naval Institute Proceedings. January, 1923. The Study of Strategy; The Spirit of the Offensive—II (continuation).

February, 1923. The Spirit of the Offensive—III (concluded).

March, 1923. The Naval Policy of the United States in the Pacific Area; Tentative Plans for War College Courses.

ENGLAND

Cavalry Journal. January, 1923. Operation of the Mounted Troops of the Egyptian Expeditionary Force (continuation); The 9th Hodson's Horse at Cambrai, 1917; Opposing views of the Action of the French and German Cavalry in the Great War; The Machine Gun Corps (Cavalry) in France, 1916-1918 (continuation).

Journal of the Royal Artillery. December, 1922. Pack Artillery, the Weapon of Accompaniment; Artillery Tactics in the War of the Future.

January, 1923. The Relation of Politics to War.

February, 1923. British Strategy in the Middle East; Observed and Unobserved Artillery Fire.

Royal Engineers Journal. March, 1923. The Necessity for Engineer Intelligence to Engineer Commanders in War, and how it may be Obtained; The New Map of Europe; The Engineers of an Army Corps in France; The Employment of Divisional Engineers in Conjunction with other Arms in War.

Tank Corps Journal. November, 1922. My Recollections of Cambrai; The Tank—Ten Possibilities (continuation); Some of the Larger Aspects of the Battle of Cambrai, 20th Nov., 1917.

December, 1922. The Tank—Ten Possibilities (concluded); Anti-Tank Defense.

FRANCE

Revue d'Artillerie. December, 1922. Origin of the Employment of Aviation by the Artillery; Individual Protection Against Gas (French and German) during the World War.

January, 1923. Sound and Flash Ranging Sections in Open Warfare Situations; German Opinions Regarding the Artillery of the Future.

February, 1923. Artillery Defense Against the Enemy's Service of Intelligence; German Artillery Regulations.

Revue de Cavalerie. November-December, 1922. Employment of Cavalry Corps in a Specific Situation (concluded); Operations of the 2d Cavalry Division on the Ourcq (May 30-June 7, 1918) (concluded); Cavalry of the Egyptian Expeditionary Corps (to be continued); Notes on the High Schooling of Horses.

January-February, 1923. Cavalry Raids; Reconnoitering Troop (covering the work of March 19, 20 and 21, 1917); Cavalry of the Egyptian Expeditionary Corps (continuation); Automobiles and Large Cavalry Units.

Revue d'Infanterie. December, 1922. Elements of Military Psychology; Infantry and Ground Organizations; A Study on Infantry Combat (Artillery Support); Accompanying Artillery; Study on the Operations of the 19th Tank Battalion, October, 1918.

January, 1923. Counter Attack at Mery, 10 June, 1918; Applied Infantry Tactics Covering a Regiment; Infantry Combat (Approach March and Combat Formations); German Theory in the Employment of Machine Gun Companies; Elements of Military Psychology (Command) (continuation).

February, 1923. Accompanying Materiel of Infantry; German viewpoint on Liaison between Infantry and Artillery; Use of Machine Guns in an Attack (historical example); Infantry Accompanying Airplane; Applied Tactics (defensive situation).

Revue Militaire Generale. November, 1922. The I Corps at the Battle of the Marne (Sept. 6-13, 1914); Recasting of the Regulations and our (French) Doctrines of War (continuation); Strategy and Allied Operations during the World War (Northern Sector) (continuation); Meeting Engagement (Illustration from the World War) (continuation).

December, 1922. Strategy and Allied Operations during the World War (Northern Sector) (continuation); The Recasting of the Regulations and Our (French) Doctrines of War (continuation); A Meeting Engagement.

January, 1923. Strategy and Allied Operations during the World War (Northern Sector) (continuation); The Recasting of the Regulations and Our (French) Doctrines of War (concluded); The Loss of Fort Douaumont, February 25, 1916.

February, 1923. The Maneuver of Lodz (November, 1914).

Revue Militaire Francaise. December, 1922. Failure of the German War Plan in September, 1914 (continued in January); Gap Between the Armies of Kluck and Bulow; Medical Service during the Operations from 15th to 31st July, 1918; Railroads and Wars in the Future.

January, 1923. Failure of the German War Plan in September, 1914; High Command during the Crimean War (continuation); Geographical Objectives in Modern War; Study on French Military Aviation.

February, 1923. The Post-War German Military Doctrine; Stabilized Warfare; High Command during the Crimean War; the Turkish Army.

March, 1923. High Command during the Crimean War; Division Maneuvers in France during 1922; Role and Employment of Railroad Artillery.

Revue de Paris. December 1, 1922. Strategy and Political Military Considerations.

December 15, 1922. Unity of Inter-allied Command.

February 1, 1923. The Unforeseen Battle of September, 1914.

BELGIUM

Bulletin Belge des Sciences Militaires. December, 1922. Operations of the Belgian Army during the War of 1914-1918 (October 1-14) (continuation); Historical Sketch of the Spring Offensive of 1918; Light Tanks; Disposition of an Infantry Division with a View to Combat; Intervention of the Artillery of the Main Body of an Infantry Division; Conduct and Combat of the Combined Arms (German Regulations of 1921).

January, 1923. Operations of the Belgian Army during the War (for a defensive situation), 1914-1918 (October 2-14); Disposition of an Infantry Division;

Light Tanks in Combat; Centers of Resistance; The Transport Corps (continued in February).

February, 1923. Operations of the Belgian Army during the War, 1914-1918 (Oct. 2-14); The Role of an Army Corps; Support of the Advance Guard by the Artillery of the Main Body; Light Tanks in Combat (Anti-tank Defense); The Transport Corps (concluded).

SWITZERLAND

Revue Militaire Suisse. November, 1922. The role of Verdun at the Battle of the Marne.

January, 1923. Combat Reconnaissance.

GERMANY

Militär Wochenblatt. November 21, 1922. Psychology in the Old and New Army.

December 1, 1922. The French Infantry (continued).

December 11, 1922. The French Infantry (concluded).

December 21, 1922. The present French Doctrine as to the Employment of Tanks.

January 1, 1923. Cavalry Division in a Future War.

January 15, 1923. Development of Infantry Combat in Attack and Defense; Artillery Fire With or Without Observation.

MISCELLANEOUS

Bulletin of the Pan-American Union. March, 1923. Education in Mexico—Present Tendencies.

Current History. February, 1923. The French Invasion of the Ruhr; What has Germany paid? France's Policy on the Rhine; Aviation Progress in America; Cost of Our Wartime Aircraft; Foreign Policy of the United States.

Geographical Review. January, 1923. Land Utilization in the United States; Geographical Aspects of the Problem; Geographical Elements in the Turkish Situation; A note on the Political Map.

Literary Digest. February 3, 1923. The Ruhr Invasion as a Business Proposition.

National Geographic Magazine. March, 1923. Along the Old Spanish Road in Mexico.

January-March, 1923

North American Review. February, 1923. Tinkering with the Army.

March, 1923. Russian Policy in the Far East.

Review of Reviews. February, 1923. Europe's New Crisis (France Occupies the Ruhr).

Scientific Monthly. February, 1923. The Social Significance of the Army Intelligence Findings.

March, 1923. Certain Economic Reactions of the War.

The Outlook. January 31, 1923. The French in the Ruhr; American Public Opinion concerning the French Seizure of the Ruhr; The Lausanne Conference—The Big Four; The Anglo-Turkish Issue.

March 21, 1923. Military Aspects of the Franco-British Entente.

Yale Review. April, 1923. Present Conditions in China.

INDEX TO SELECTED MAGAZINE ARTICLES, DOCUMENTS AND BOOKS

ADVANCE GUARDS

See under Artillery (Advance Guard).

AIRCRAFT

See also under Aviation; Artillery, Coast (Aircraft).

MANEUVERING AIRCRAFT IN FORMATION. 9 pages. By Lieut. E. L. Ericson, U.S.N. (Reprinted from *U. S. Naval Inst. Proc.*, Jan., 1923.)—*Coast Art. Jour.*, Mar., 1923, p. 225.

World War

COST OF OUR WAR-TIME AIRCRAFT. 3 pages. By Maj. Gen. M.M. Patrick, U.S.A.—*Current History*, Feb., 1923, p. 733.

AMERICAN CAMPAIGNS

See under G4 Course (American Campaigns)—Instructors' File No. P.H. 139-G-18. Also under Wars (American).

AMERICAN FORCES IN GERMANY

Maneuvers

DIVISION MANEUVERS IN THE A. F. IN G. 4 pages.—*Mil. Engr.*, Jan.-Feb., 1923, p. 30.

ANTI-AIRCRAFT

See also under Artillery, Anti-Aircraft; Balloons

Defense

ANTI-AIRCRAFT DEFENSE. 201 pages. Compiled by the officers of the 1st Anti-Aircraft Battalion, C.A.C. (Published by *Coast Arty. Jour.*) Library No. 533.6.

DOCTRINE OF ANTI-AIRCRAFT DEFENSE IN FRANCE. 6 pages. Report from Military Attache in France.—*Coast Arty. Jour.*, Jan., 1923, p. 54.

ANTI-AIRCRAFT GUNS

German

REMARKS OF DEVELOPMENT OF THE ANTI-AIRCRAFT GUN. From Hq. A. F. in G., MID., Dec. 18, 1922. Instructors' File No. 610-SS.

ANTI-TANK

See also under Tanks.

ANTI-TANK DEFENSE. 4 pages.—*Tank Corps Jour.*, Dec., 1922, p. 220.

APPROPRIATIONS

Army

ARMY APPROPRIATION BILL. 3 pages.—A. & N., *Reg.* Feb. 24, 1923, p. 171.

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